

In re: Meyers
Appl. No.: 09/464,039
Filed: December 15, 1999
Page 4

B4
CONT.

c) a naturally occurring allelic variant of a polypeptide comprising the amino acid sequence of SEQ ID NO:7, or an amino acid sequence encoded by the cDNA insert of the plasmid deposited with ATCC as Patent Deposit Number PTA-2170, wherein the polypeptide is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule comprising SEQ ID NO:8, or a complement thereof under stringent conditions; comprising culturing the host cell of claim 65 under conditions in which the nucleic acid molecule is expressed.

C

73. (Amended) The method of claim 72 wherein said polypeptide comprises the amino acid sequence of SEQ ID NO:7.

REMARKS

The foregoing amendments to claims 61, 62, 72 and 73 are fully supported in the written description and claims as originally filed. Accordingly, the foregoing amendments to the claims do not add new matter; their entry is therefore respectfully requested.

Applicants believe that the present application is now in condition for examination. If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned agent at the number provided.

Prompt and favorable consideration of the foregoing amendments, and entry of the same into the present application, are respectfully requested.

It is not believed that extensions of time or fees for net addition of claims are required, beyond those that may otherwise be provided for in documents accompanying this paper. However, in the event that additional extensions of time are necessary to allow consideration of

In re: Meyers
Appl. No.: 09/464,039
Filed: December 15, 1999
Page 5

this paper, such extensions are hereby petitioned under 37 CFR § 1.136(a), and any fee required therefore (including fees for net addition of claims) is hereby authorized to be charged to Deposit Account No. 16-0605.

Respectfully submitted,

Kathryn L. Coulter

Kathryn L. Coulter
Registration No. 45,889

ALSTON & BIRD LLP
P.O. Drawer 34009
Charlotte, NC 28234
Tel Raleigh Office (919) 420-2200
Fax Raleigh Office (919) 420-2260

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner For Patents, Washington, DC 20231, on May 29, 2001.

Nora C. Martinez

Nora C. Martinez



In re:
Appl. No.: 09/464,039
Filed: December 15, 1999
Page 6

Version with Markings to Show Changes

In the Specification:

In the section entitled "Summary of the Invention," please amend the paragraph on page 5, lines 26-31 as follows:

The invention provides isolated ADH polypeptides, including a polypeptide having the amino acid sequence shown in SEQ ID NOS:1, 3, 5, 7, and 9, or the amino acid sequence encoded by the cDNA deposited as ATCC Patent Deposit No. PTA-2170 [] on June 27, 2000 [] ("the deposited cDNA")[,]; as ATCC Patent Deposit No. PTA-2812 [] on December 15, 2000; [], as ATCC Patent Deposit No. PTA-2171 [] on June 27, 2000; [], [as ATCC NO. ____ on ____,] or as ATCC Patent Deposit No. PTA-2813 [] on December 15, 2000; [] for 21612, 21615, 21620, and 21676, respectively[respectfully].

In the section entitled "Detailed Description of the Invention," please amend the paragraph on page 12, lines 10-13, as follows:

The invention thus relates to novel ADHs having the deduced amino acid sequence shown in Figures 1, 7, 11, 15, and 19, or the amino acid sequences shown in SEQ ID NOS:1, 3, 5, 7, and 9, or the amino acid sequences encoded by the cDNA inserts of the plasmids deposited [cDNAs] as ATCC Patent Deposit Nos. PTA-2170, PTA-2812, PTA-2171, and PTA-2813 [____, ____, ____, ____, and ____ respectfully].

B

In re: Meyers
Appl. No.: 09/464,039
Filed: December 15, 1999
Page 7

In the Claims:

Please amend claims 61, 62, 72, and 73 as follows:

61. An isolated nucleic acid molecule selected from the group consisting of:
- a) a nucleic acid molecule comprising a nucleotide sequence which is at least 45% identical to the nucleotide sequence of SEQ ID NO:[2, 4, 6,]8[, or 10], the cDNA insert of the plasmid [any one of the plasmids] deposited with ATCC as Patent Deposit Number PTA-2170 [Numbers _____, _____, _____, _____, or _____], or a complement thereof;
 - b) a nucleic acid molecule comprising a fragment of at least 15 nucleotides of the nucleotide sequence of SEQ ID NO:[2, 4, 6,]8[, or 10], the cDNA insert of the plasmid [any one of the plasmids] deposited with ATCC as Patent Deposit Number PTA-2170[Numbers _____, _____, _____, _____, or _____], or a complement thereof;
 - c) a nucleic acid molecule which encodes a polypeptide comprising the amino acid sequence of SEQ ID NO:[1, 3, 5,]7[, or 9], or an amino acid sequence encoded by the cDNA insert of the plasmid [any one of the plasmids] deposited with ATCC as Patent Deposit Number PTA-2170[Numbers _____, _____, _____, _____, or _____];
 - d) a nucleic acid molecule which encodes a fragment of a polypeptide comprising the amino acid sequence of SEQ ID NO:[1, 3, 5,]7[, or 9], or an amino acid sequence encoded by the cDNA insert of the plasmid [any one of the plasmids] deposited with ATCC as Patent Deposit Number PTA-2170[Numbers _____, _____, _____, _____, or _____], wherein the fragment comprises at least 12 contiguous amino acids of SEQ ID NO:[1, 3, 5,]7[, or 9], or an amino acid sequence encoded by the cDNA insert of the plasmid[any one of the plasmids] deposited with ATCC as Patent Deposit Number PTA-2170[Numbers _____, _____, _____, _____, or _____]; and
 - e) a nucleic acid molecule which encodes a naturally occurring allelic variant of a polypeptide comprising the amino acid sequence of SEQ ID NO:[1, 3, 5,]7[, or 9], or an

In re: Meyers
Appl. No.: 09/464,039
Filed: December 15, 1999
Page 8

amino acid sequence encoded by the cDNA insert of the plasmid[any one of the plasmids] deposited with ATCC as Patent Deposit Number PTA-2170[Numbers ____, ____, ____, ____, or ____], wherein the nucleic acid molecule hybridizes to a nucleic acid molecule comprising SEQ ID NO:[2, 4, 6,]8[, or 10], or a complement thereof under stringent conditions.

62. The isolated nucleic acid molecule of claim 61, which is selected from the group consisting of:

a) a nucleic acid molecule comprising the nucleotide sequence of SEQ ID NO:[2, 4, 6,]8[, or 10], the cDNA insert of the plasmid[any one the plasmids] deposited with ATCC as Patent Deposit Number PTA-2170[Numbers ____, ____, ____, ____, or ____], or a complement thereof; and

b) a nucleic acid molecule which encodes a polypeptide comprising the amino acid sequence of SEQ ID NO:[1, 3, 5,]7[, or 9], or an amino acid sequence encoded by the cDNA insert of the plasmid[any one of the plasmids] deposited with ATCC as Patent Deposit Number PTA-2170[Numbers ____, ____, ____, ____, or ____].

72. A method for producing a polypeptide selected from the group consisting of:

a) a polypeptide comprising the amino acid sequence of SEQ ID NO:[1, 3, 5,]7[, or 9], or an amino acid sequence encoded by the cDNA insert of the plasmid[any one of the plasmids] deposited with ATCC as Patent Deposit Number PTA-2170[Numbers ____, ____, ____, ____, or ____];

b) a polypeptide comprising a fragment of the amino acid sequence of SEQ ID NO:[1, 3, 5,]7[, or 9], or an amino acid sequence encoded by the cDNA insert of the plasmid [any one of the plasmids] deposited with ATCC as Patent Deposit Number PTA-2170[Numbers ____, ____, ____, ____, or ____], wherein the fragment comprises at least 12 contiguous amino acids of SEQ ID NO:[1, 3, 5,]7[, or 9], or an amino acid sequence encoded by the cDNA

In re: Meyers
Appl. No.: 09/464,039
Filed: December 15, 1999
Page 9

insert of the plasmid[any one of the plasmids] deposited with ATCC as Patent Deposit Number PTA-2170[Numbers ____, ____, ____, ____, or ____]; and

c) a naturally occurring allelic variant of a polypeptide comprising the amino acid sequence of SEQ ID NO:[1, 3, 5,]7[, or 9], or an amino acid sequence encoded by the cDNA insert of the plasmid[any one of the plasmids] deposited with ATCC as Patent Deposit Number PTA-2170[Numbers ____, ____, ____, ____, or ____], wherein the polypeptide is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule comprising SEQ ID NO:[2, 4, 6,]8[, or 10], or a complement thereof under stringent conditions; comprising culturing the host cell of claim 65 under conditions in which the nucleic acid molecule is expressed.

73. The method of claim 72 wherein said polypeptide comprises the amino acid sequence of SEQ ID NO:[1, 3, 5,]7[, or 9].